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Claim 1. (Amended) A hydrorefining catalyst comprising a hydrogenation active metal component supported on a refractory porous carrier, wherein a median pore diameter determined by the nitrogen adsorption method is 8 to 20 nm, a pore volume determined by the nitrogen adsorption method is 0.56 - 1.0 cm³/g, and a pore volume of pores having a pore diameter of 50 nm or larger determined by the mercury intrusion porosimetry method is 0.32 - 1.1 cm³/g, wherein the pore volume determined by the mercury intrusion porosimetry method is 0.87 cm³/g or greater."

Sub E1

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Claim 12. (Amended) A method of producing a hydrorefining catalyst comprising a hydrogenation active metal, comprising the steps of:

kneading a porous starting powder whose main component is γ -alumina wherein the γ -alumina in the porous starting powder is present at 90 weight % or more and wherein the γ -alumina has a pore volume of 0.75 cm³/g or greater and a mean particle diameter of 10 to 200 μ m to prepare a kneaded product;

molding and calcining said kneaded product; and

supporting the active metal component on the kneaded product or on the kneaded product after calcining.

Sub E1